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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,941	03/13/2008	Roberta Martinetti	41416	5670
86378 Pearne & Gordo	7590 07/12/201 on LLP	EXAMINER		
1801 East 9th S Suite 1200	treet	STEWART, JASON-DENNIS NEILKEN		
Cleveland, OH 44114-3108			ART UNIT	PAPER NUMBER
			3738	
			NOTIFICATION DATE	DELIVERY MODE
			07/12/2010	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patdocket@pearne.com dchervenak@pearne.com

		Application No.	Annliannt/a)	
		Application No.	Applicant(s)	
Office Astion Comment		10/594,941	MARTINETTI ET AL.	
Οπίζε Αςτί	on Summary	Examiner	Art Unit	
		JASON-DENNIS STEWART	3738	
The MAILING D Period for Reply	ATE of this communication ap	pears on the cover sheet with the c	orrespondence address	
A SHORTENED STAT WHICHEVER IS LONG - Extensions of time may be avafter SIX (6) MONTHS from I - If NO period for reply is spec - Failure to reply within the set	GER, FROM THE MAILING D railable under the provisions of 37 CFR 1.11 he mailing date of this communication. fied above, the maximum statutory period or extended period for reply will, by statute ice later than three months after the mailin	LY IS SET TO EXPIRE 3 MONTH(3) ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from the e, cause the application to become ABANDONEI and the property of	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status				
2a) ☐ This action is FI ll 3) ☐ Since this applic	ation is in condition for allowa	September 2006. s action is non-final. Ince except for formal matters, pro Ex parte Quayle, 1935 C.D. 11, 45		
Disposition of Claims				
4a) Of the above 5) ☐ Claim(s) 6) ☑ Claim(s) <u>1-10</u> is, 7) ☐ Claim(s)	are rejected.	wn from consideration.		
Application Papers				
10)⊠ The drawing(s) fi Applicant may not Replacement drav	request that any objection to the ving sheet(s) including the correct	er. /are: a) accepted or b) object drawing(s) be held in abeyance. See tion is required if the drawing(s) is obj xaminer. Note the attached Office	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C.	§ 119			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
3) Information Disclosure Sta	atent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P. 6) Other:	nte	

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DETAILED ACTION

The following is a Non-Final Office action in response to communications received on 09/28/2006. Claims 1-10 are currently pending and addressed below.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 1-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Regarding claim 1, the phrase "for example" renders the claim indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).
- 4. Regarding Claim 1, the phrase "porosity (30-90%)" is indefinite because it is unclear if the 30-90% range is required. It is suggested that the Applicant clearly describe the porosity in that range if desired.
- 5. Regarding Claim 1, the phrase "pore dimensions in the 0.1-125 microns and 125-2500 microns range" is indefinite because it could be interpreted as a pore range of 0.1-2500 microns or as requiring pores in each range listed. Appropriate correction is suggested.

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6. Regarding Claims 6 and 9, it is not evident from the specification of the instant application what the Applicant is attempting to claim by stating "the hydroxyapatite-based material which forms the subject matter of patent EP-411 035 (and the corresponding application for an Italian patent BO2002A000650)." This statement renders the claim indefinite.

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1, 3, and 5-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over D'Urso 5,741,215 in view of Taboas et al. 2003/0006534.
- 9. D'Urso teaches a method of forming a prosthetic implant (abstract) that may be made of ceramics, or more specifically, hydroxyapatite (col. 5, II. 29-33) (Claims 6, 9). D'Urso teaches using a CT scan of a patient to obtain a model showing the defect to be reconstructed (abstract) (claim 1), using prototyping to create a model of the defect (col. 4, II. 26-33), forming the model, and constructing a mould or mould surface (negative mould) (col. 5, II. 9-16). However, D'Urso does not teach the controlled porosity of the ceramic implant or a mechanical finishing step.

Taboas teaches a method of creating ceramic scaffolds that can support drug delivery (paragraph 7) (Claim 10) having direct or indirect solid free form (SFF)

fabrication. The scaffolds may have an interconnected porosity with pore dimensions .1-.125 microns and 125-2500 microns range (paragraphs 22-27) (Claim 1). Taboas also teaches manually processing a semi-finished product to obtain a final product (paragraph 12) (Claim 1).

It would have been obvious to one or ordinary skill in the art at the time of the invention to modify the method of D'Urso with the ceramic scaffolds taught by Taboas in order to produce structures that mimic natural tissue properties as taught by Taboas (paragraph 7).

- 10. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over D'Urso 5,741,215 in view of Taboas et al. 2003/0006534, as applied to claim 1 above, and further in view of Cummings et al. 2004/0152034.
- 11. D'Urso in view of Taboas teaches the invention as claimed and as discussed above. However, D'Urso in view of Taboas does not teach that the manual finishing is done with a diamond mill cutter.

Cummings teaches finishing a ceramic implant with a diamond milling cutter (paragraph 255).

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the method of D'Urso in view of Taboas by using a diamond milling cutter as taught by Cummings because such a device is commonly known and used in the art for such a task.

Allowable Subject Matter

12. Claim 4 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON-DENNIS STEWART whose telephone number is (571)270-3080. The examiner can normally be reached on M-F (alt Fridays off) 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571)272-4754. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jason-Dennis Stewart/ Examiner, Art Unit 3738 /William H. Matthews/ Primary Examiner, Art Unit 3774 Application/Control Number: 10/594,941

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